

Second gift from Akshay

Problem Statement

On the eve of Reethu's Birthday,Akshay also gifted a string of numbers of length 'L' to Reethu. Reethu is expecting that Akshay's present would definitely be an 'IDEAL' string. An 'IDEAL' string is a string in which summation of three consecutive numbers is 10.

Constraints: $0 \leq L \leq 100000$.

Input Format

The first line of input contains a numerical string.

Output Format

Output 'YES' if the input string is 'IDEAL', else print 'NO', without quotes.

Sample Input

1334

Sample Output

YES

Explanation

In the given input string,3 consecutive numbers (3,3,4) adds up to 10.So,'YES'.